

QGIS Application - Bug report #5329

wrong ellipsoid semi-minor axis calculation inside QgsDistanceArea

2012-04-06 03:20 AM - Giovanni Allegri

Status: Closed	
Priority: High	
Assignee:	
Category:	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: fixed
Crashes QGIS or corrupts data: No	Copied to github as #: 15030

Description

In Qgis the semi-minor axis of the ellipsoid is calculated [1] with:

$$b = a - (f/a)$$

where

b = semi-minor axis

a = semi-major axis

f = inverse flattening

while it should be:

$$b = a - (a/f)$$

In Qgis the WGS84 semi-minor axis is 6378136,xxx

while it should be 6356752.xxx

This causes wrong distance calculations on ellipsoid as reported here:

<http://lists.osgeo.org/pipermail/qgis-user/2012-April/016535.html>

I've done a pull request into master repo: <https://github.com/qgis/Quantum-GIS/pull/115>

giovanni

[1]

<http://trac.osgeo.org/qgis/browser/trunk/qgis/src/core/qgsdistancearea.cpp#L153>

History

#1 - 2012-04-06 03:37 AM - Nathan Woodrow

- Resolution set to fixed

- Status changed from Open to Closed

Fixed in commit:55d92681d7eef2

Thanks

Files

